

A close-up, front-facing view of a fighter jet's cockpit. The canopy is clear, showing the interior. The nose of the aircraft is prominent in the foreground. The background shows a clear blue sky and parts of an airfield.

Climb the

Advanced Composites

Career Ladder

- Work with modern, high-tech materials
- Produce aerospace, medical, recreational and automotive components
- Implement advanced manufacturing methods and technologies
- Work while you go to school



Advanced Composites

Sample Career Ladder

Profile: *Kent Crookston*

Present Position:

Instructor, Davis Applied
Technology College; Owner,
TCB Composites.
Inventor - Skywalker,
Vertical Takeoff and Landing
(VTOL) Aircraft (pictured)



"The composites industry is exciting and has a great potential for growth on the future. The application can be used in aerospace products to sporting goods because of the light-weight components. I became interested in composites because I liked the idea of having the ability to design unique products that require a mind activated, hand operated approach."

Operations Manager

Occupation

Inexperienced wage per hour: \$ 22.27

Required Training: Bachelor's or higher degree
plus work experience

First-line Supervisor/Managers of Production and Operating Workers

Occupation

Inexperienced wage per hour: \$ 14.16

Required Training: Work experience in a related occupation

Autoclave Operator (Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic)

Occupation

Inexperienced wage per hour: \$ 12.72

Required Training: Moderate-term on-the-job training

Composite Technician (Team Assembler)

Occupation

Inexperienced wage per hour: \$ 8.17

Required Training: Moderate-term on-the-job training

Production Helper

Occupation

Inexperienced wage per hour: \$ 7.40

Required Training: Short-term on-the job training

Machine Operator-Fabricator (Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic)

Occupation

Inexperienced wage per hour: \$ 8.35

Required Training: Moderate-term on-the-job training

PREREQUISITE SKILLS:

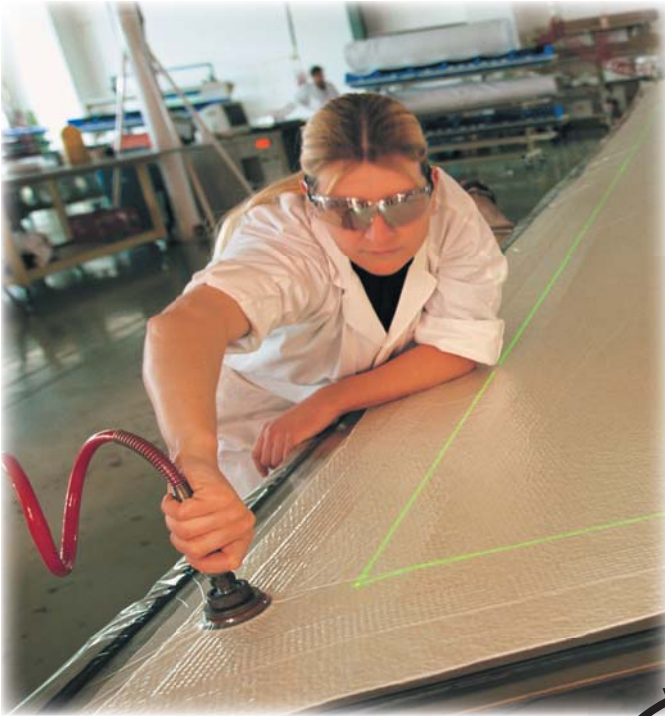
High School Diploma/GED
Ability to use multiple measuring devices
Work Readiness Skills
Background check/drug screen
Transportation

For advanced composites job descriptions and training information, go to: [jobs.utah.gov/careers/advanced composites](http://jobs.utah.gov/careers/advanced%20composites)

Advanced Composites

Career Ladder

Career Ladder



Occupation _____

Inexperienced wage per hour: \$ _____

Required training/experience: _____

Target completion date: _____

Training institution: _____

Funding: _____

Occupation _____

Inexperienced wage per hour: \$ _____

Required training/experience: _____

Target completion date: _____

Training institution: _____

Funding: _____

Occupation _____

Inexperienced wage per hour: \$ _____

Required training/experience: _____

Target completion date: _____

Training institution: _____

Funding: _____

Occupation _____

Inexperienced wage per hour: \$ _____

Required training/experience: _____

Target completion date: _____

Training institution: _____

Funding: _____

Notes:

Advanced Composites Career Ladder

Source: Utah Occupational Wages, May 2007

Department of Workforce Services, Workforce Information. Updated October 2007

Bachelor's Degree or Higher	2004-2014* Outlook	Hourly Wage Inexperienced	Hourly Wage Median	Training Level
Engineering Managers	*****	\$33.82	\$45.29	Bachelor's + experience
Financial Managers	*****	25.33	36.01	Bachelor's + experience
Operations Managers/Plant Managers	*****	22.27	35.57	Bachelor's + experience
Sales Managers	*****	22.73	37.99	Bachelor's + experience
Mechanical Engineers	*****	26.19	34.69	Bachelor's Degree
Industrial Engineers	*****	24.95	33.27	Bachelor's Degree
Computer Software Engineers, Applications	*****	20.51	32.33	Bachelor's Degree
Logisticians	**	21.97	28.67	Bachelor's Degree
Electrical Engineers	*****	25.16	35.73	Bachelor's Degree
Chemical Engineers	**	27.94	39.83	Bachelor's Degree
Computer Software Engineers, Systems Software	*****	24.56	36.10	Bachelor's Degree
Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	***	21.32	29.39	Bachelor's Degree
Training and Development Specialists	**	12.99	19.24	Bachelor's Degree
Network Systems and Data Communications Analysts	****	17.74	25.94	Bachelor's Degree
Electronics Engineers, Except Computer	*****	28.28	35.29	Bachelor's Degree
Environmental Engineers	****	23.40	33.00	Bachelor's Degree
Occupational Health and Safety Specialists	***	18.38	25.41	Bachelor's Degree
High School / GED + Training	2004-2014 Outlook	Hourly Wage Inexperienced	Hourly Wage Median	Training Level
Electrical and Electronic Engineering Technicians	*****	12.43	22.54	Associate Degree
Computer Support Specialists	****	11.47	16.77	Associate Degree
Industrial Engineering Technicians	****	15.85	24.68	Associate Degree
Aircraft Mechanics and Service Technicians	****	18.82	22.14	Postsecondary vocational training
Mechanical Drafters	***	14.27	18.59	Postsecondary vocational training
Electrical and Electronics Repairers, Commercial and Industrial Equipment	***	18.12	22.79	Postsecondary vocational training
On-the-Job Training / Certification	2004-2014 Outlook	Hourly Wage Inexperienced	Hourly Wage Median	Training Level
Machinists	*****	11.90	18.03	More than 1 year
Welders, Cutters, Solderers, and Brazers	*****	11.32	14.87	More than 1 year
Industrial Machinery Mechanics	*****	14.99	20.12	More than 1 year
Tool and Die Makers	**	14.36	20.97	More than 1 year
Inspectors, Testers, Sorters, Samplers, and Weighers	*****	9.14	13.70	1 month to 1 year
Team Assemblers	***	8.17	10.52	1 month to 1 year
Executive Secretaries and Administrative Assistants	*****	13.10	16.86	1 month to 1 year
Maintenance and Repair Workers, General	*****	9.56	14.18	1 month to 1 year
Chemical Equipment Operators and Tenders	**	12.32	18.20	1 month to 1 year
Bookkeeping, Accounting, and Auditing Clerks	****	9.85	13.32	1 month to 1 year
Truck Drivers, Heavy and Tractor-Trailer	*****	13.47	16.97	1 month to 1 year
Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	NR**	12.72	16.08	1 month to 1 year
Mixing and Blending Machine Tool Operators, Metal and Plastic	****	9.85	12.98	1 month to 1 year
Sales Representatives, Wholesale and Manufacturing, Except Technical & Scientific	*****	14.33	23.29	1 month to 1 year
Computer-Controlled Machine Tool Operators, Metal and Plastic	***	11.29	14.57	1 month to 1 year
Forging Machine Setters, Operators, and Tenders, Metal and Plastic	**	10.40	13.54	1 month to 1 year
Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators	***	12.97	16.69	1 month to 1 year
Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	****	8.53	11.55	1 month to 1 year
Fiberglass Laminators and Fabricators	***	6.38	10.79	1 month to 1 year
Production, Planning, and Expediting Clerks	****	10.56	13.52	less than 1 month
Shipping, Receiving, and Traffic Clerks	***	8.70	11.24	less than 1 month
Electrical and Electronic Equipment Assemblers	***	8.00	10.24	less than 1 month
Stock Clerks and Order Fillers	***	7.65	10.18	less than 1 month
Office Clerks, General	***	7.49	10.36	less than 1 month
Packaging and Filling Machine Operators and Tenders	***	7.85	10.71	less than 1 month
Engine and Other Machine Assemblers	NR**	9.82	13.24	less than 1 month
Helpers - Production Workers	**	7.40	8.92	less than 1 month
Human Resources Assistants, Except Payroll and Timekeeping	*****	10.36	14.29	less than 1 month
First-Line Supervisors/Managers of Production and Operating Workers	*****	14.16	21.42	Related work experience
Purchasing Agents, Except Wholesale, Retail, and Farm Products	*****	16.17	22.83	Related work experience
Industrial Production Managers	****	24.04	35.67	Related work experience
Transportation, Storage, and Distribution Managers	****	21.91	30.84	Related work experience
First-Line Supervisors/Managers of Transportation and Material-Moving Machine	*****	14.85	23.16	Related work experience

For more information, go to: <http://www.jobs.utah.gov/careers/advanced-composites>

Data for these occupations applies across all industries; it is not specific to advanced composites.

* For more information on the "star" rating system, please go to: <http://jobs.utah.gov/wi/pubs/adultcareerguide/topfivestarjobs.pdf>

**NR = not rated